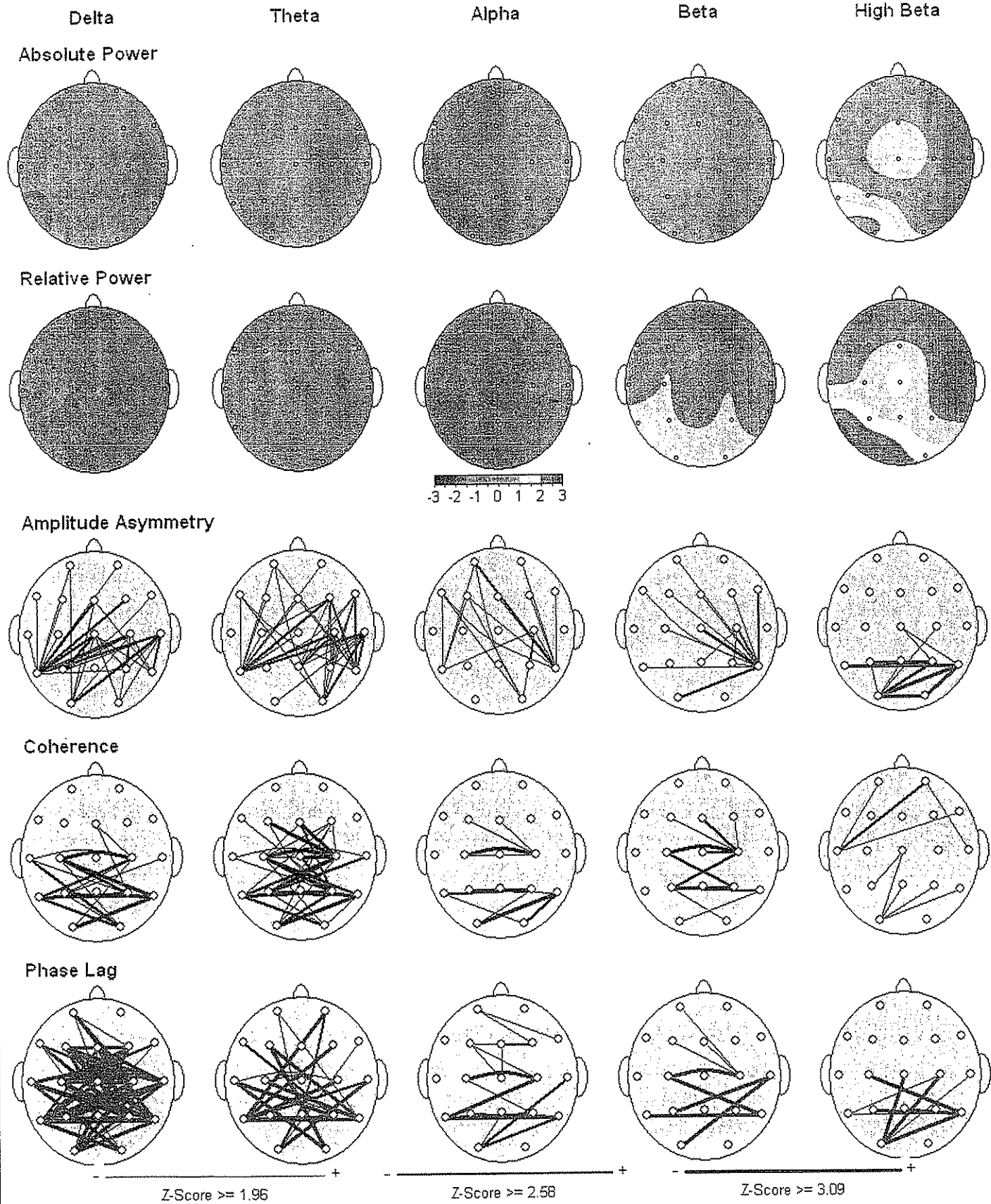


**EXHIBIT C-1**

Montage: LinkEars

EEG ID: 879

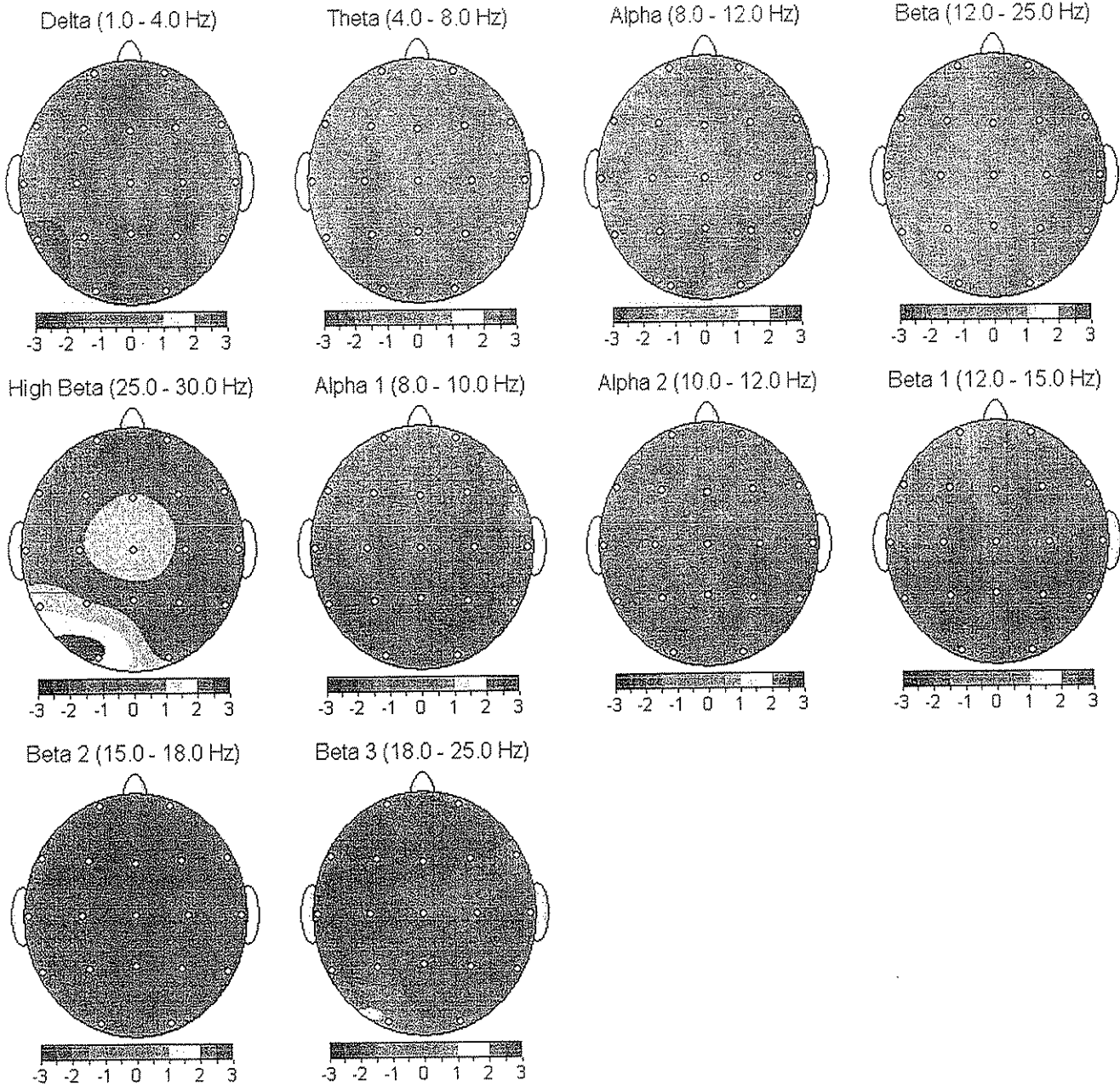
Z Scored FFT Summary Information



Montage: LinkEars

EEG ID: 879

Z Scored FFT Absolute Power

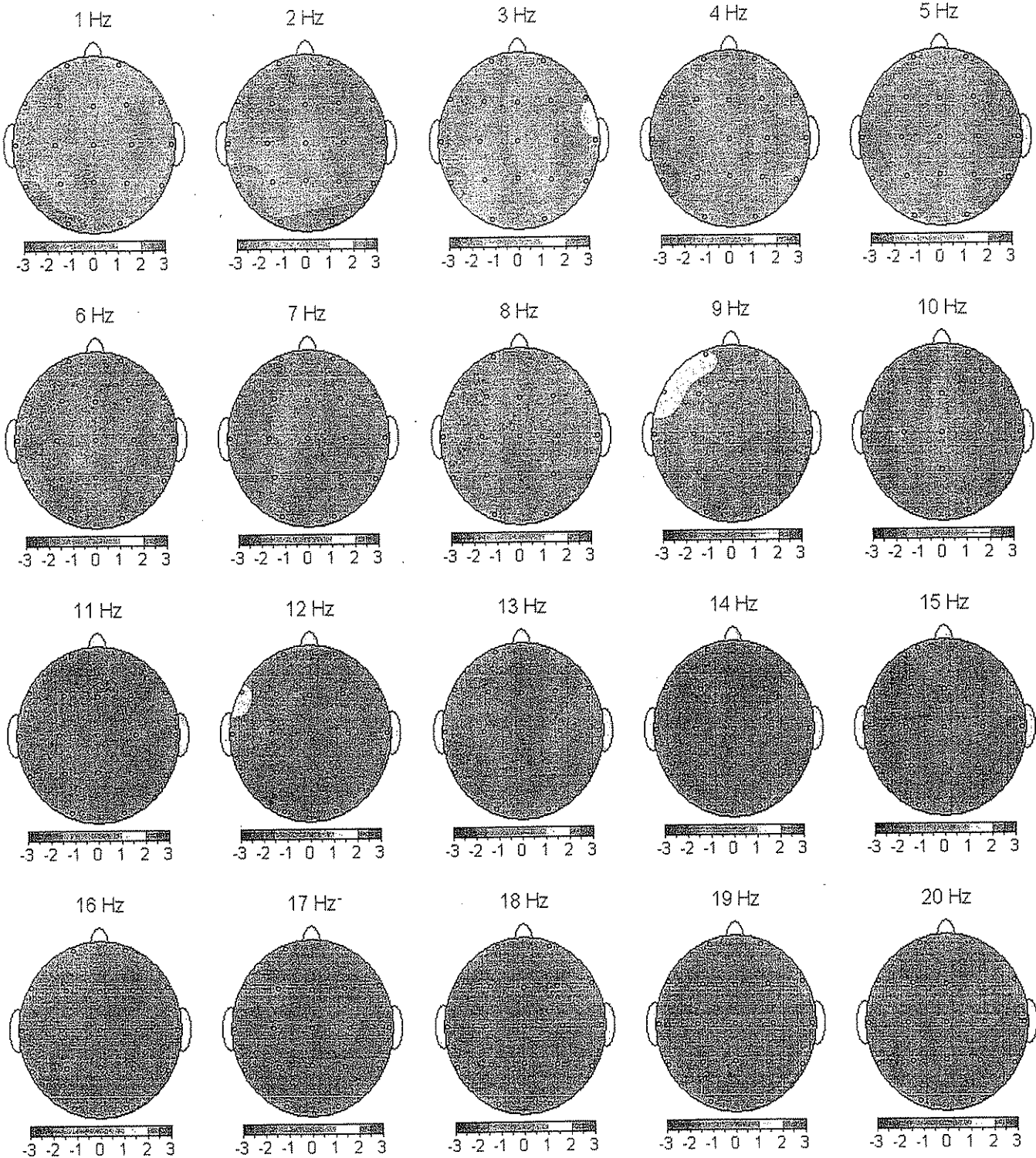




Montage: LinkEars

EEG ID: 879

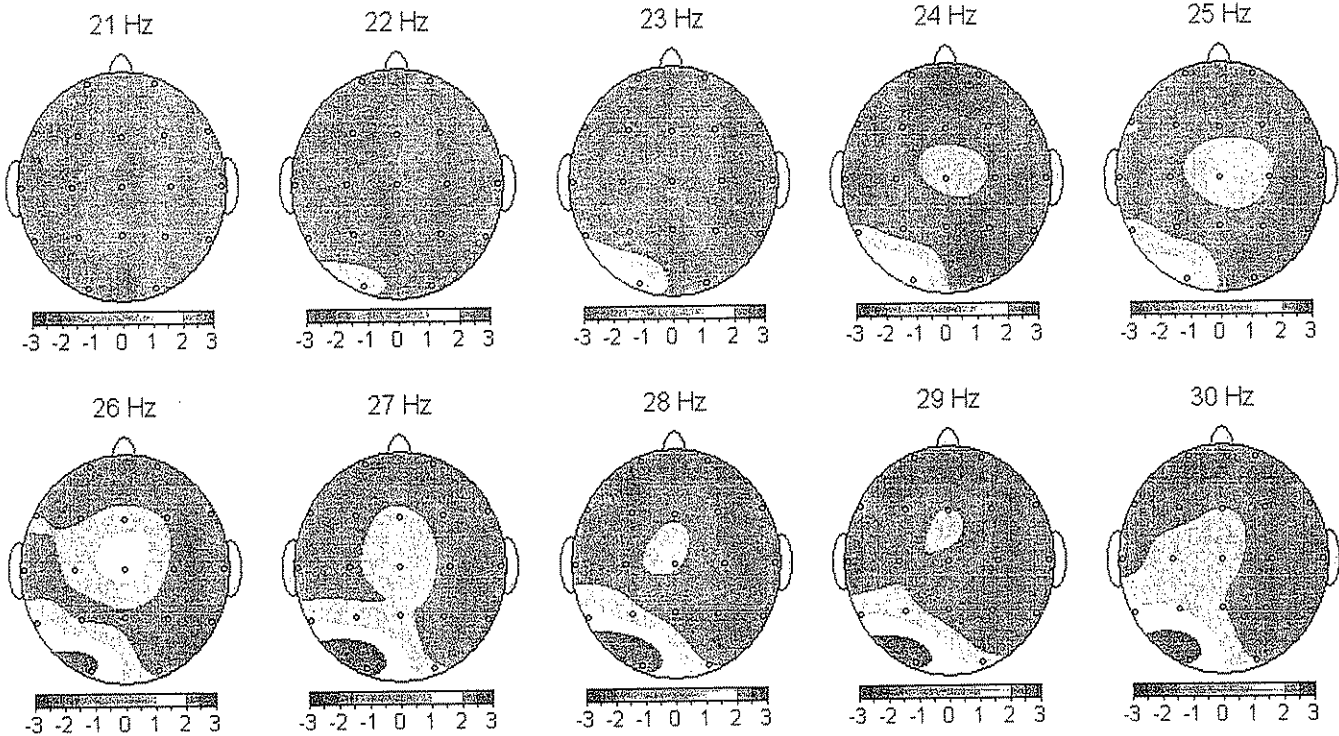
Z Scored FFT Absolute Power



Montage: LinkEars

EEG ID: 879

Z Scored FFT Absolute Power



Montage: LinkEars

EEG ID: 879

Z Scored FFT Absolute Power

Intrahemispheric: LEFT

	DELTA	THETA	ALPHA	BETA	HIGH BETA	BETA 1	BETA 2	BETA 3
FP1 - LE	0.14	-0.04	0.53	0.33	0.45	0.60	0.42	0.20
F3 - LE	-0.39	-0.41	0.35	0.40	0.79	0.42	0.39	0.45
C3 - LE	-0.94	-0.59	0.17	0.31	0.95	0.49	0.26	0.27
P3 - LE	-1.19	-0.76	-0.29	0.04	1.06	0.11	0.05	0.09
O1 - LE	-1.48	-0.95	-0.45	0.43	2.01	0.02	0.21	0.90
F7 - LE	-0.26	-0.19	0.64	0.56	0.93	0.71	0.48	0.52
T3 - LE	-0.42	-0.55	0.26	0.20	0.66	0.48	0.11	0.14
T5 - LE	-1.90	-1.30	-0.60	-0.01	1.43	-0.03	-0.39	0.28

Intrahemispheric: RIGHT

	DELTA	THETA	ALPHA	BETA	HIGH BETA	BETA 1	BETA 2	BETA 3
FP2 - LE	-0.03	0.03	0.37	0.17	0.22	0.28	0.28	0.12
F4 - LE	-0.16	0.06	0.28	0.36	0.69	0.30	0.34	0.46
C4 - LE	-0.31	-0.21	0.37	0.55	0.74	0.58	0.54	0.57
P4 - LE	-1.00	-0.87	-0.28	-0.03	0.37	0.03	0.16	-0.12
O2 - LE	-1.47	-1.34	-0.67	-0.19	0.87	-0.30	-0.10	-0.02
F8 - LE	0.19	0.31	0.42	0.56	0.46	0.55	0.47	0.64
T4 - LE	0.44	0.10	0.30	-0.12	-0.35	0.22	-0.16	-0.24
T6 - LE	-1.24	-1.20	-0.66	-0.97	-0.52	-0.80	-0.82	-1.01

Intrahemispheric: CENTER

	DELTA	THETA	ALPHA	BETA	HIGH BETA	BETA 1	BETA 2	BETA 3
Fz - LE	-0.22	-0.12	0.29	0.35	1.09	0.32	0.39	0.39
Cz - LE	-0.23	-0.36	0.20	0.35	1.42	0.32	0.23	0.52
Pz - LE	-0.80	-0.86	-0.22	-0.11	0.82	-0.02	-0.07	-0.07



Montage: LinkEars

EEG ID: 879

Z Scored Peak Frequency

Intrahemispheric: LEFT

	DELTA	THETA	ALPHA	BETA	HIGH BETA	BETA 1	BETA 2	BETA 3
FP1 - LE	-0.24	-0.56	-0.04	-0.35	-0.74	-0.62	0.10	0.31
F3 - LE	0.26	-0.75	-0.03	0.13	-0.43	-0.96	0.83	0.41
C3 - LE	0.07	-0.18	0.31	-0.30	-0.06	-0.63	-0.40	0.31
P3 - LE	0.20	0.39	0.12	0.04	0.96	0.23	-0.74	0.40
O1 - LE	0.50	0.24	-0.09	1.74	1.93	0.61	0.96	1.38
F7 - LE	-0.14	-0.53	-0.14	-0.15	-0.90	-1.42	0.81	0.65
T3 - LE	-1.08	-0.15	-0.11	-0.32	0.15	-1.47	0.54	0.22
T5 - LE	-0.27	0.82	0.37	1.11	1.24	-0.32	-0.03	2.07

Intrahemispheric: RIGHT

	DELTA	THETA	ALPHA	BETA	HIGH BETA	BETA 1	BETA 2	BETA 3
FP2 - LE	0.76	-0.36	-0.03	-0.23	-0.84	-0.03	-0.39	-0.12
F4 - LE	1.00	-0.64	0.13	0.18	-0.53	-0.11	-0.10	-0.03
C4 - LE	0.52	-0.09	0.56	-0.08	-1.53	-0.18	0.27	0.10
P4 - LE	0.44	-0.02	-0.10	-0.19	-0.20	0.05	0.42	-0.04
O2 - LE	-0.05	-0.36	-0.20	0.67	1.78	0.21	0.68	0.60
F8 - LE	1.64	-0.36	0.13	0.08	-0.51	0.57	-1.46	-0.32
T4 - LE	0.87	0.19	-0.23	-0.62	-1.36	0.04	-1.60	-0.37
T6 - LE	-0.16	0.27	-0.43	-0.01	-0.21	-0.31	0.11	0.44

Intrahemispheric: CENTER

	DELTA	THETA	ALPHA	BETA	HIGH BETA	BETA 1	BETA 2	BETA 3
Fz - LE	0.94	-0.77	-0.00	0.16	0.09	-0.38	0.22	0.44
Cz - LE	0.72	-0.92	0.04	0.47	-1.01	-0.48	-0.10	1.21
Pz - LE	0.67	-0.33	-0.19	0.07	-0.11	0.45	-0.25	0.41

Montage: LinkEars

EEG ID: 879

Z Scored FFT Amplitude Asymmetry

Intrahemispheric: LEFT

	DELTA	THETA	ALPHA	BETA
FP1 F3	0.72	1.28	0.83	-0.21
FP1 C3	1.45	1.22	0.94	-0.05
FP1 P3	1.67	1.38	1.58	0.31
FP1 O1	1.96	1.67	1.83	-0.21
FP1 F7	0.91	0.52	-0.34	-0.36
FP1 T3	0.68	0.87	0.59	0.13
FP1 T5	2.43	2.56	2.27	0.47
F3 C3	1.07	0.74	0.77	0.28
F3 P3	1.34	0.96	1.47	0.53
F3 O1	1.56	1.12	1.57	-0.08
F3 F7	-0.16	-0.67	-0.99	-0.18
F3 T3	0.08	0.26	0.33	0.23
F3 T5	2.43	2.37	2.11	0.66
C3 P3	0.98	0.76	1.31	0.73
C3 O1	1.38	1.00	1.35	-0.17
C3 F7	-0.89	-1.08	-1.18	-0.26
C3 T3	-0.76	-0.08	-0.06	0.17
C3 T5	2.30	2.30	1.87	0.71
P3 O1	0.54	0.47	0.63	-0.71
P3 F7	-1.15	-1.15	-1.61	-0.51
P3 T3	-1.29	-0.56	-1.02	-0.18
P3 T5	1.20	1.54	1.11	0.13
O1 F7	-1.51	-1.57	-1.74	0.01
O1 T3	-1.66	-0.93	-1.11	0.30
O1 T5	0.66	1.00	0.24	0.87
F7 T3	0.21	0.71	0.81	0.36
F7 T5	2.05	2.58	2.39	0.83
T3 T5	2.09	1.88	1.92	0.36

Intrahemispheric: RIGHT

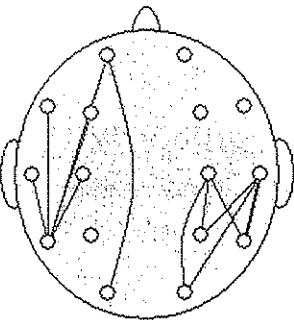
	DELTA	THETA	ALPHA	BETA
FP2 F4	0.21	-0.04	0.39	-0.23
FP2 C4	0.39	0.40	0.00	-0.45
FP2 P4	1.12	1.45	1.30	0.23
FP2 O2	1.43	1.86	1.69	0.41
FP2 F8	-0.17	-0.42	0.11	-0.47
FP2 T4	-0.23	-0.06	0.38	0.39
FP2 T6	1.45	1.93	2.01	1.43
F4 C4	0.28	1.08	-0.49	-0.67
F4 P4	1.45	2.44	1.38	0.70
F4 O2	1.72	2.40	1.84	0.79
F4 F8	-0.42	-0.50	-0.40	-0.48
F4 T4	-0.75	-0.08	0.10	0.68
F4 T6	1.95	2.66	2.05	2.41
C4 P4	2.05	3.40	1.99	2.11
C4 O2	1.98	2.36	2.11	1.33
C4 F8	-0.56	-0.95	0.08	0.22
C4 T4	-0.98	-0.67	0.39	1.04
C4 T6	2.19	2.49	2.40	3.05
P4 O2	1.12	1.57	1.42	0.45
P4 F8	-1.25	-2.01	-1.25	-0.77
P4 T4	-2.05	-2.15	-0.96	0.14
P4 T6	0.83	1.43	1.53	2.28
O2 F8	-1.63	-2.47	-1.81	-0.90
O2 T4	-2.26	-2.73	-1.55	-0.05
O2 T6	-0.37	-0.41	-0.29	1.72
F8 T4	-0.08	0.42	0.32	0.81
F8 T6	1.61	2.59	2.06	2.67
T4 T6	2.72	3.00	1.78	1.20

Interhemispheric: HOMOLOGOUS PAIRS

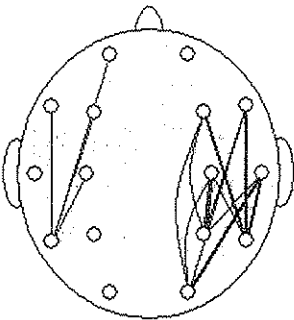
	DELTA	THETA	ALPHA	BETA
FP1 FP2	0.32	-0.19	0.35	0.22
C3 C4	-1.75	-1.74	-0.97	-1.17
O1 O2	-0.42	1.57	1.20	1.94
T3 T4	-0.74	-1.04	-0.05	0.61

	DELTA	THETA	ALPHA	BETA
F3 F4	-0.34	-1.86	0.42	0.35
P3 P4	-0.78	0.20	-0.06	0.15
F7 F8	-0.46	-1.10	0.83	-0.02
T5 T6	-1.52	-0.12	0.17	1.98

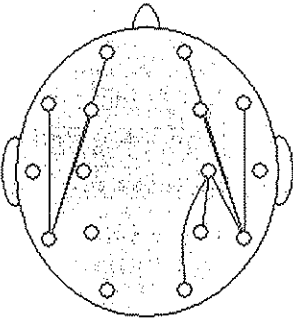
Delta (1.0 - 4.0 Hz)



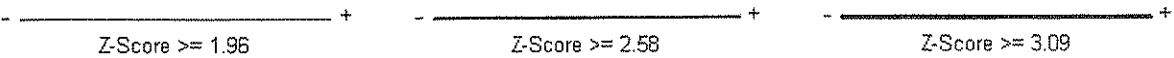
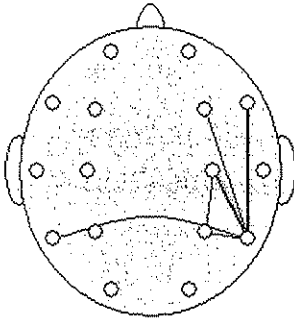
Theta (4.0 - 8.0 Hz)



Alpha (8.0 - 12.0 Hz)



Beta (12.0 - 25.0 Hz)





Montage: LinkEars

EEG ID: 879

Z Scored FFT Coherence

Intrahemispheric: LEFT

	DELTA	THETA	ALPHA	BETA
FP1 F3	0.69	0.91	1.09	0.66
FP1 C3	-0.06	-0.09	0.65	0.42
FP1 P3	-0.26	-0.52	0.75	0.48
FP1 O1	-0.68	-1.36	0.25	-1.31
FP1 F7	0.66	0.72	1.15	1.08
FP1 T3	0.23	0.66	1.83	1.48
FP1 T5	-0.27	-0.59	-0.99	0.45
F3 C3	0.08	-0.57	0.15	-0.16
F3 P3	-0.22	-0.81	0.53	-0.05
F3 O1	-1.33	-1.50	-0.02	-1.01
F3 F7	0.87	0.94	1.40	0.82
F3 T3	0.18	0.47	1.63	0.93
F3 T5	-0.55	-0.62	-0.61	0.04
C3 P3	0.42	0.46	0.81	0.42
C3 O1	-1.44	-1.41	-0.38	-1.01
C3 F7	0.84	0.73	1.38	0.88
C3 T3	0.47	0.97	1.46	0.47
C3 T5	-0.15	-0.11	-0.42	-0.29
P3 O1	-1.05	-1.41	-1.73	-1.59
P3 F7	0.36	0.16	1.32	1.12
P3 T3	0.44	0.63	1.24	0.54
P3 T5	-0.08	-0.20	-1.03	-0.41
O1 F7	-1.35	-1.47	0.26	-0.63
O1 T3	-1.62	-1.20	-0.27	-0.04
O1 T5	-1.07	-1.37	-1.42	0.14
F7 T3	1.00	1.08	1.51	1.26
F7 T5	0.70	0.06	-0.10	0.87
T3 T5	0.63	0.31	-0.10	0.38

Intrahemispheric: RIGHT

	DELTA	THETA	ALPHA	BETA
FP2 F4	0.94	1.26	1.04	1.01
FP2 C4	-0.15	-0.62	-1.12	-0.63
FP2 P4	-0.28	-0.87	0.07	-0.37
FP2 O2	-0.38	-1.28	0.59	-0.96
FP2 F8	0.30	0.97	0.72	1.09
FP2 T4	-0.29	0.85	0.50	1.64
FP2 T6	-0.19	-0.52	-0.98	0.07
F4 C4	-0.43	-2.17	-1.79	-2.55
F4 P4	-0.71	-1.79	0.08	-1.13
F4 O2	-1.11	-1.44	0.56	-0.91
F4 F8	0.81	0.77	0.88	0.96
F4 T4	-0.43	-0.07	0.43	1.07
F4 T6	-0.64	-0.89	-0.84	-0.02
C4 P4	0.30	0.19	0.75	0.21
C4 O2	-0.88	-1.06	-0.08	-0.57
C4 F8	0.85	0.31	-0.13	-0.01
C4 T4	0.24	0.54	0.72	1.14
C4 T6	0.23	0.12	0.15	0.61
P4 O2	0.12	-0.72	-0.81	-0.62
P4 F8	0.23	0.05	0.81	-0.06
P4 T4	-0.16	0.21	0.89	0.67
P4 T6	0.38	0.12	-0.47	0.37
O2 F8	-0.76	-0.99	0.55	-0.77
O2 T4	-1.46	-1.32	-0.24	-0.54
O2 T6	-1.30	-2.44	-2.67	-0.74
F8 T4	1.13	1.34	0.94	1.47
F8 T6	1.07	0.65	-0.05	0.90
T4 T6	1.13	0.71	0.52	0.74

Interhemispheric: HOMOLOGOUS PAIRS

	DELTA	THETA	ALPHA	BETA
FP1 FP2	0.26	0.22	0.77	0.68
C3 C4	-3.12	-4.59	-3.14	-3.36
O1 O2	-0.37	-1.60	-1.83	-1.40
T3 T4	0.17	-0.70	-0.99	-1.15

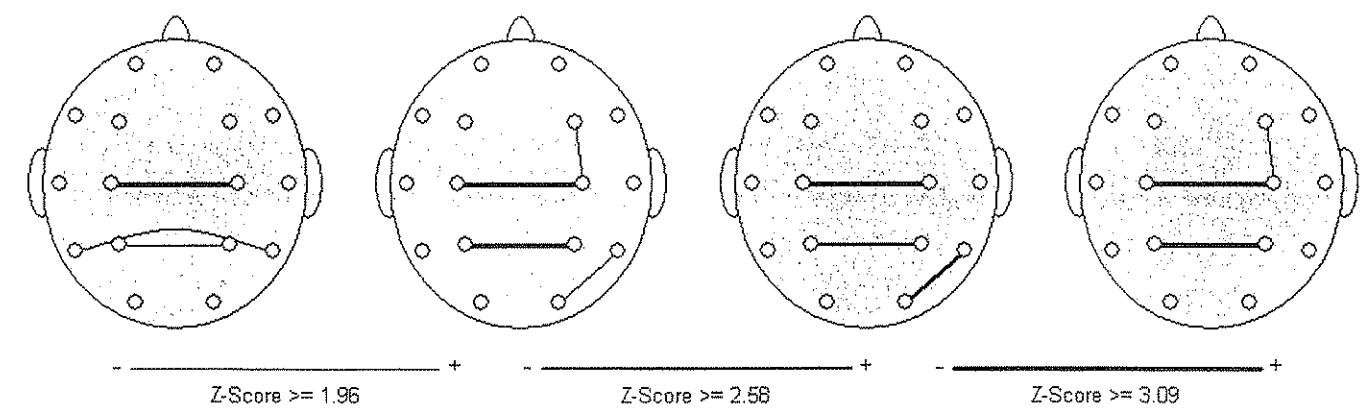
	DELTA	THETA	ALPHA	BETA
F3 F4	-0.37	-0.82	0.22	-0.83
P3 P4	-2.15	-3.87	-2.77	-3.32
F7 F8	-1.09	-0.01	0.82	0.86
T5 T6	-2.36	-1.30	-0.36	-1.25

Delta (1.0 - 4.0 Hz)

Theta (4.0 - 8.0 Hz)

Alpha (8.0 - 12.0 Hz)

Beta (12.0 - 25.0 Hz)



Montage: LinkEars

EEG ID: 879

Z Scored FFT Phase Lag

Intrahemispheric: LEFT

	DELTA	THETA	ALPHA	BETA
FP1 F3	-1.10	-0.43	0.22	-0.24
FP1 C3	-0.65	0.06	-0.23	-1.03
FP1 P3	-0.42	-0.38	-0.29	-0.84
FP1 O1	0.57	1.76	0.21	-0.86
FP1 F7	-0.84	-0.76	-0.66	-0.78
FP1 T3	-0.84	-0.64	-1.19	-0.87
FP1 T5	0.25	-0.63	-0.42	-0.86
F3 C3	-0.23	0.62	-0.28	-0.68
F3 P3	-0.88	-0.55	-0.10	-1.03
F3 O1	0.74	0.79	0.24	-0.32
F3 F7	-1.12	-0.54	0.57	-0.06
F3 T3	-1.35	-1.14	-1.00	-0.86
F3 T5	0.50	-0.73	-0.35	-0.87
C3 P3	-0.65	-0.52	0.22	-1.11
C3 O1	0.05	-0.57	0.87	-0.02
C3 F7	-0.52	0.33	-0.03	0.03
C3 T3	-0.95	-0.78	-0.69	0.01
C3 T5	1.14	-0.75	-0.01	-1.41
P3 O1	-0.62	-0.81	1.91	-0.42
P3 F7	-0.82	0.24	-0.30	-0.61
P3 T3	-0.63	-0.06	0.52	0.18
P3 T5	1.21	-0.04	0.52	-0.35
O1 F7	1.07	0.91	0.13	-0.64
O1 T3	1.11	-1.09	0.84	-0.14
O1 T5	0.88	-0.30	-0.93	-0.25
F7 T3	-0.89	0.14	-0.89	-0.58
F7 T5	-0.32	-0.46	-0.48	-0.66
T3 T5	0.72	-0.80	0.26	-0.17

Intrahemispheric: RIGHT

	DELTA	THETA	ALPHA	BETA
FP2 F4	-0.36	-0.92	1.02	-0.86
FP2 C4	-0.73	-0.52	0.41	1.13
FP2 P4	-0.50	-1.05	-0.07	0.75
FP2 O2	0.10	0.76	-0.21	-0.29
FP2 F8	-0.23	-0.12	0.70	-0.69
FP2 T4	-0.31	-0.62	-0.69	-1.08
FP2 T6	-0.91	-0.71	0.27	-0.68
F4 C4	-1.09	-0.46	0.34	1.42
F4 P4	-0.24	-0.85	-0.01	1.28
F4 O2	0.99	0.32	-0.15	-0.28
F4 F8	-0.17	-0.00	-0.94	-0.69
F4 T4	0.73	-0.28	-0.61	-0.66
F4 T6	-0.27	-0.49	-0.00	-0.35
C4 P4	-0.80	-0.83	-0.18	-0.61
C4 O2	0.74	-0.42	-0.23	-0.84
C4 F8	-0.18	-0.44	-0.65	-0.25
C4 T4	0.48	-0.14	-0.63	-0.97
C4 T6	0.42	-0.63	-0.26	-0.37
P4 O2	-0.11	-0.39	-0.11	-0.90
P4 F8	-0.08	-1.14	-0.25	0.13
P4 T4	0.54	-0.16	-0.36	-0.92
P4 T6	0.88	-0.30	0.34	-0.38
O2 F8	0.21	-0.23	-0.37	-0.52
O2 T4	1.34	-0.70	-0.12	-1.47
O2 T6	1.75	-0.54	1.69	-1.36
F8 T4	-0.76	-0.86	-0.43	-0.85
F8 T6	-0.47	-0.86	-0.37	-0.51
T4 T6	-1.28	-0.80	-0.01	-0.53

Interhemispheric: HOMOLOGOUS PAIRS

	DELTA	THETA	ALPHA	BETA
FP1 FP2	-0.46	0.22	1.38	-0.73
C3 C4	8.32	2.10	4.59	4.09
O1 O2	0.54	-0.44	0.88	-0.30
T3 T4	2.78	1.93	-0.22	0.16

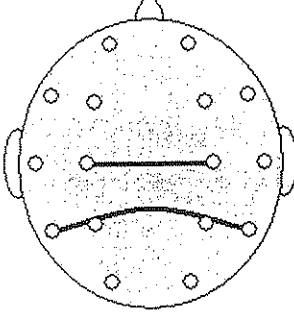
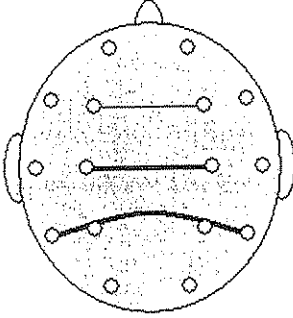
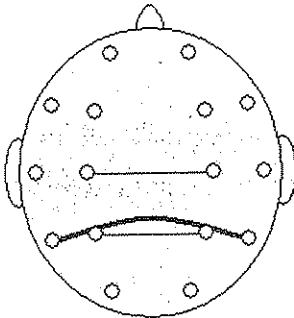
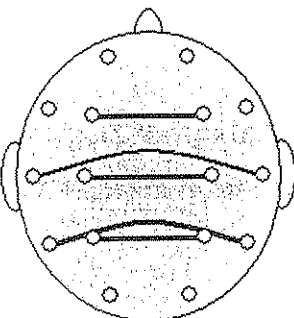
	DELTA	THETA	ALPHA	BETA
F3 F4	3.24	0.94	2.15	-0.70
P3 P4	5.12	1.97	0.34	-0.35
F7 F8	0.68	-0.40	-0.23	-0.57
T5 T6	42.49	17.08	12.18	14.58

Delta (1.0 - 4.0 Hz)

Theta (4.0 - 8.0 Hz)

Alpha (8.0 - 12.0 Hz)

Beta (12.0 - 25.0 Hz)



Z-Score >= 1.96

Z-Score >= 2.58

Z-Score >= 3.09

Montage: LinkEars

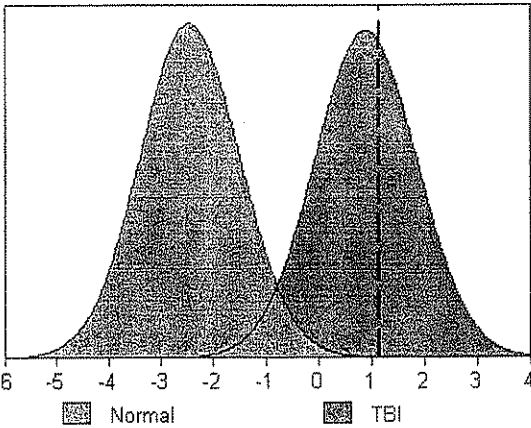
EEG ID: 879

Traumatic Brain Injury Discriminant Analysis\*

TBI DISCRIMINANT SCORE = 1.14

TBI PROBABILITY INDEX = 99.5%

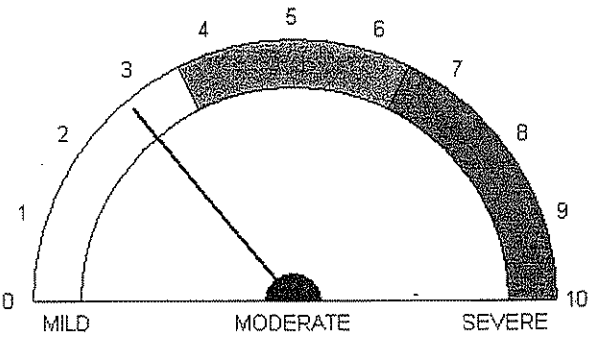
The TBI Probability Index is the subject's probability of membership in the mild traumatic brain injury population. (see Thatcher et al, EEG and Clin. Neurophysiol., 73: 93-106, 1989.)



			RAW	Z
FP1-F3	COH	Theta	79.46	-0.52
T3-T5	COH	Beta	64.58	1.52
C3-P3	COH	Beta	82.03	0.98
FP2-F4	PHA	Beta	0.02	-1.36
F3-F4	PHA	Beta	0.29	0.01
F4-T6	AMP	Alpha	77.13	2.09
F8-T6	AMP	Alpha	45.63	2.45
F4-T6	AMP	Beta	86.88	2.39
F8-T6	AMP	Beta	58.91	2.08
F3-O1	AMP	Alpha	16.14	1.39
F4-O2	AMP	Alpha	42.48	1.97
F7-O1	AMP	Alpha	0.94	-2.35
F4-O2	AMP	Beta	17.10	1.08
P3	RP	Alpha	42.57	-0.67
P4	RP	Alpha	45.69	-0.50
O1	RP	Alpha	40.32	-1.10
O2	RP	Alpha	40.75	-1.11
T4	RP	Alpha	41.26	0.11
T5	RP	Alpha	40.37	-0.81
T6	RP	Alpha	46.89	-0.41

TBI SEVERITY INDEX = 2.78

This severity score places the patient in the MILD range of severity.



			RAW	Z
FP1-C3	COH	Delta	39.61	-0.89
FP1-FP2	COH	Theta	82.83	-0.17
O1-F7	COH	Alpha	23.01	-0.11
O2-T6	COH	Alpha	65.52	-1.50
P3-O1	COH	Beta	66.80	-1.49
FP1-T3	PHA	Theta	-0.85	-1.36
T3-T4	PHA	Theta	-81.68	2.36
O1-F7	PHA	Alpha	-23.55	1.46
F7-F8	PHA	Alpha	2.79	0.14
T5-T6	PHA	Beta	-23.87	2.86
C3-F7	AMP	Delta	-1.46	-1.85
FP2-F4	AMP	Delta	32.98	1.94
C4-F8	AMP	Delta	-49.46	-3.71
O1-O2	AMP	Theta	6.72	0.46
P3-F7	AMP	Alpha	-11.54	-3.09
FP2-P4	AMP	Alpha	7.72	2.30

The TBI Severity Index is an estimate of the neurological severity of injury. (see Thatcher et al, J. Neuropsychiatry and Clinical Neuroscience, 13(1): 77-87, 2001.)

\*Statement of Indications of Use:

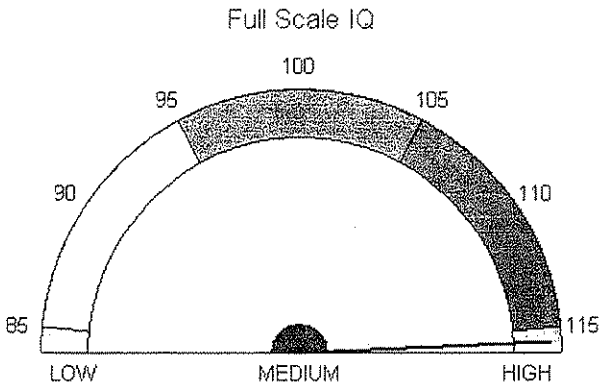
The Discriminant Analysis and Severity Index are to be used by experienced and qualified professionals for the post-hoc statistical evaluation of the human electroencephalogram (EEG). The Discriminant Analysis and Severity Index are to be viewed as an adjunct to the evaluation of the patient, and they do not serve as a primary basis for a diagnosis. Warning: Inclusion criteria of a history of traumatic brain injury and greater than 13 years of age must be adhered to.



Montage: LinkEars

EEG ID: 879

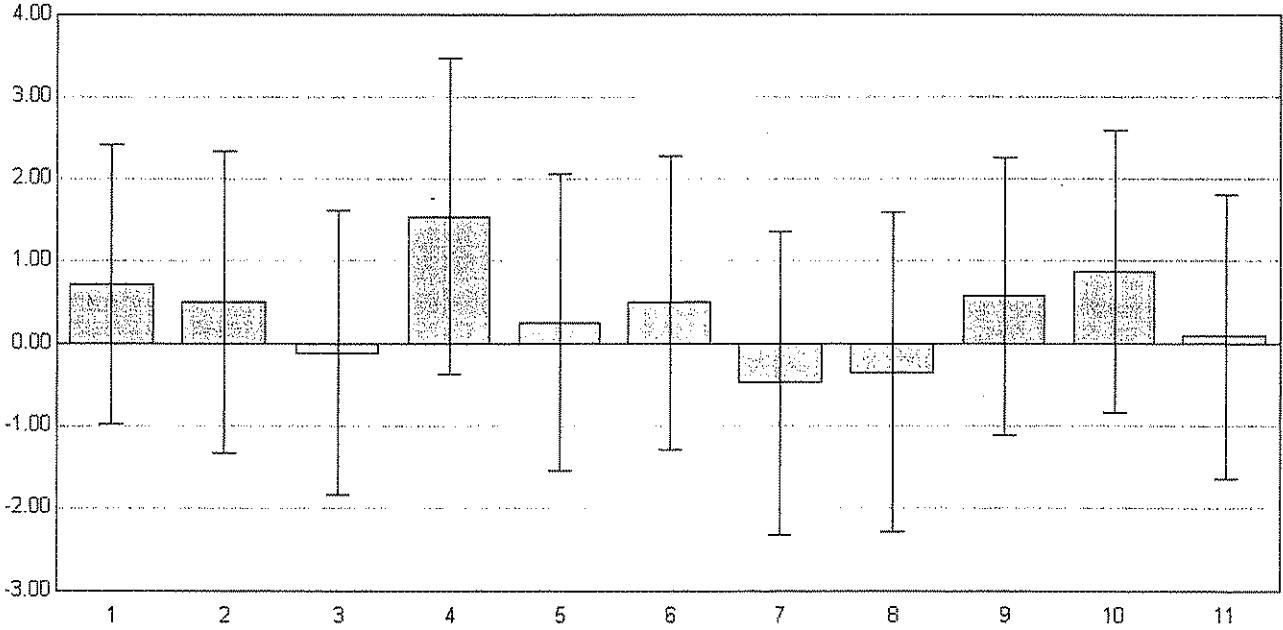
Predicted Neuropsychological Scores



Predicted Cognitive Performance

Neuropsychological Tests	Scaled Score	Min SS	Max SS	Z Score	Min Z	Max Z
1 Information	13.37	7.79	18.94	0.72	-0.98	2.42
2 Mathematics	12.27	6.51	18.04	0.50	-1.33	2.32
3 Vocabulary	11.12	5.17	17.06	-0.11	-1.84	1.61
4 Digit Span	14.89	8.92	20.86	1.54	-0.38	3.47
5 Picture Completion	11.82	6.55	17.09	0.25	-1.55	2.06
6 Block Design	12.55	6.39	18.72	0.49	-1.30	2.28
7 Coding	8.84	2.99	14.68	-0.48	-2.32	1.35
8 Mazes	10.27	4.04	16.50	-0.35	-2.29	1.58
9 Full IQ	115.85	89.25	142.46	0.57	-1.11	2.25
10 Verbal IQ	120.47	91.42	149.51	0.87	-0.85	2.60
11 Performance IQ	107.85	81.79	133.91	0.08	-1.64	1.80

Predicted Z-Score Achievement and Neuropsychological Measures with 95% Confidence Intervals

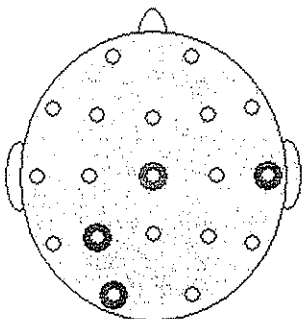


Montage: LinkEars

EEG ID: 879

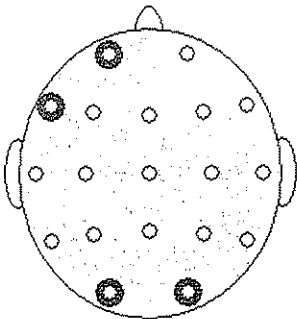
Predicted Full IQ

Absolute Power



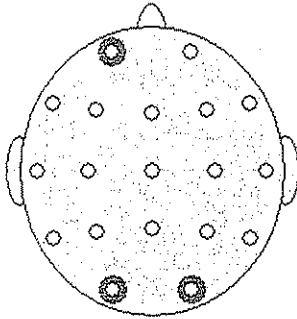
< Ave IQ ————— >= Ave IQ

Relative Power



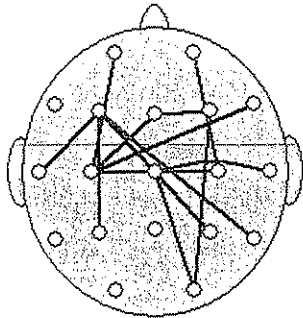
< Ave IQ ————— >= Ave IQ

Power Ratio



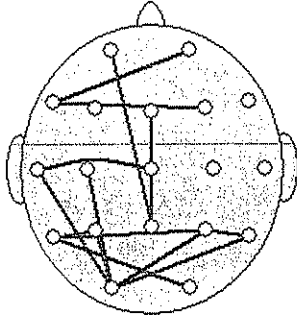
< Ave IQ ————— >= Ave IQ

Amplitude Asymmetry



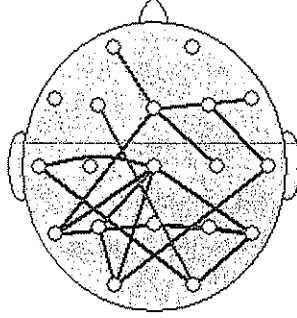
< Ave IQ ————— >= Ave IQ

Coherence



< Ave IQ ————— >= Ave IQ

Phase Difference



< Ave IQ ————— >= Ave IQ

Daniel Kuhn M.D., P.C.

## Integrative Neuropsychiatric Services

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Date – 10.17.2008

### INTEGRATIVE NEUROCOGNITIVE REPORT

Re: Gabriel Steif  
DOT – 09.12.2008  
DOB – 04.25.1937  
Reference #: 194

**Background** - Mr. Steif suffered a closed head injury when he was hit by a motor vehicle and has developed symptoms of Post Concussion Syndrome secondary to a traumatic brain injury. They include inattention, impaired memory, impaired executive function, and depression.

This report summarizes the results of this objective and quantified screening battery of standardized neuropsychological tests.

The findings show significant dysfunctions affecting memory and executive functions.

The findings support the diagnosis of a Traumatic Brain Injury and Post Concussion Syndrome

The positive findings in this test are summarized in Page 2.

Daniel Kuhn, M.D.  
Board Certified Psychiatrist, CPN-P.



Brain Function Laboratories:  
USA – UK – Germany – The Netherlands – South Africa – Australia

Personalized  
Quantitative  
Report



# *IntegNeuro*

Client Assessment (KUHN-00194)

Birth date 25 Apr 1937 (age 71 years; male)

.....  
This report is for clinicians only

*Gabriel Steif*

The report is provided on pages 1 – 2.  
The remainder of the report is score details.

For description of the tests - see <http://services.brainresource.com/reportdetails.jsp>  
For Summary Report Manual - see <http://services.brainresource.com/reportmanual.jsp>

**Important Information** Reference: PA 1260 1216 Test Date: 12 Sep 2008 Report Date: 15 Oct 2008

This report provides indications of brain function and cognition as compared to a control group in the normative database. It is not to be used as a basis for action without consideration by a competent relevant professional. Always seek the advice of a trained health professional or relevant specialist regarding any highlighted variances within this report before any treatment or action is taken. This report is not intended to diagnose, treat or cure any health condition. It is also not intended to be used in any way on its own.

This report does not establish any physician-patient relationship or supplant any in-person medical consultation or examination. Appropriate medical attention should always be sought for specific ailments. Do not disregard professional medical advice or delay seeking medical treatment as a result of findings contained within this report.

BRC expressly disclaims any and all responsibility for any liability, loss or risk which may be or is incurred as a consequence, directly or indirectly, of any non-specialist use and application of this report.

1. Overall summary of findings

Cognition	
Test	Deficit
1. Memory Recall and Recognition	●
2. Digit Span	
3. Span of Visual Memory	
4. Sustained Attention (CPT)	
5. Switching of Attention	
6. Motor Tapping	
7. Choice Reaction Time	
8. Time Estimation	
9. Verbal Interference	
10. Spot the Real Word	
11. Word Generation	
12. Maze	●

● = deficit compared to matched controls (see Appendix 1.3 for details)

The table above shows deficits found in each test (1–12).

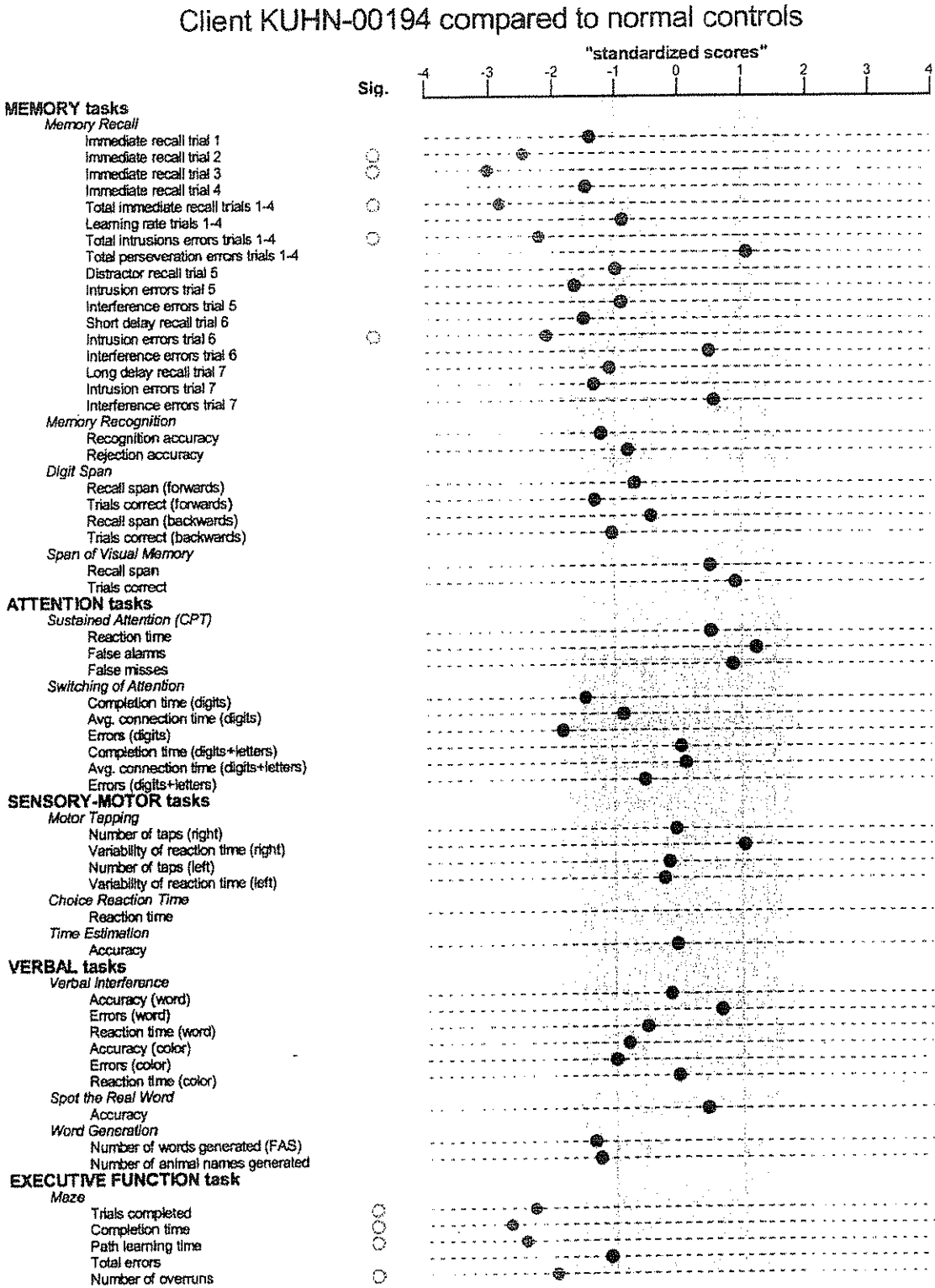
The list below summaries what the practical significance of that deficit is considered to be:

1. Ability to learn and remember new tasks based on verbal information. Critical, central everyday skill.
12. Ability to plan, strategize and implement complex tasks involving visuospatial information.

The remainder of this report provides the landscape summary and then the details underpinning these results.

For further details or queries not addressed in this report, please email: [info@brainresource.com](mailto:info@brainresource.com)

2. Summary of Cognition results (landscape view)



For convenience, the tasks are organized by broad cognitive groupings. The circles on the left indicate statistically significant differences compared with the normal control. The "standardized scores" on the right are normalized for age, gender and years of education, which means differences from zero reflect differences from 'average peer' (also known as z-scores). Positive "standardized scores" indicate strengths, negative "standardized scores" indicate potential deficits (Avg = average). "Standardized scores" beyond -2 to +2 are statistically significant. False alarms (respond when should not) = false positive; errors of commission. False misses (not respond when should) = false negatives; errors of omission. Memory Recall (Intrusion = words not on the list. Interference = words from the other list. Perseveration = repeat errors). Specialist interpretation is required.



Appendix 1. Details of Cognition

Appendix 1.1 The client's scores

Measure	Client	Int. Brain Database Average	Std. Dev	Standardized Score	Percentile
<b>Memory Recall</b>					
Immediate recall trial 1	3	4.6	1.2	-1.4	8 <sup>th</sup>
◦ Immediate recall trial 2	3	6.3	1.3	-2.45	1 <sup>st</sup>
◦ Immediate recall trial 3	3	7.2	1.4	-3.01	< 1 <sup>st</sup>
Immediate recall trial 4	5	8.1	2.1	-1.46	7 <sup>th</sup>
◦ Total immediate recall trials 1-4	14	26.1	4.3	-2.82	< 1 <sup>st</sup>
Learning rate trials 1-4	0.6	1.12	0.59	-0.88	19 <sup>th</sup>
◦ Total intrusions errors trials 1-4	12	1.5	4.8	-2.2	1 <sup>st</sup>
Total perseveration errors trials 1-4	0	1.3	1.2	1.08	86 <sup>th</sup>
Distractor recall trial 5	2	3.4	1.4	-0.98	16 <sup>th</sup>
Intrusion errors trial 5	2	0.46	0.94	-1.64	5 <sup>th</sup>
Interference errors trial 5	1	0.37	0.71	-0.89	19 <sup>th</sup>
Short delay recall trial 6	3	5.9	2	-1.49	7 <sup>th</sup>
◦ Intrusion errors trial 6	2	0.33	0.8	-2.08	2 <sup>nd</sup>
Interference errors trial 6	0	0.14	0.28	0.49	69 <sup>th</sup>
Long delay recall trial 7	3	5.3	2.1	-1.08	14 <sup>th</sup>
Intrusion errors trial 7	2	0.6	1.1	-1.34	9 <sup>th</sup>
Interference errors trial 7	0	0.16	0.28	0.56	71 <sup>st</sup>
<b>Memory Recognition</b>					
Recognition accuracy	9	11	1.7	-1.22	11 <sup>th</sup>
Rejection accuracy	10	11.1	1.4	-0.8	21 <sup>st</sup>
<b>Digit Span</b>					
Recall span (forwards)	5	6.1	1.5	-0.7	24 <sup>th</sup>
Trials correct (forwards)	4	6.7	2	-1.32	9 <sup>th</sup>
Recall span (backwards)	3	3.8	1.9	-0.44	33 <sup>rd</sup>
Trials correct (backwards)	1	3.2	2	-1.05	15 <sup>th</sup>
<b>Span of Visual Memory</b>					
Recall span	5	4.5	1	0.5	69 <sup>th</sup>
Trials correct	7	5.6	1.5	0.89	81 <sup>st</sup>
<b>Sustained Attention (CPT)</b>					
Reaction time	442 <sup>ms</sup>	477 <sup>ms</sup>	71 <sup>ms</sup>	0.5	69 <sup>th</sup>
False alarms	0	0.83	0.68	1.22	89 <sup>th</sup>
False misses	0	0.6	0.71	0.85	80 <sup>th</sup>
<b>Switching of Attention</b>					
Completion time (digits)	42.2 <sup>s</sup>	29.6 <sup>s</sup>	8.6 <sup>s</sup>	-1.47	7 <sup>th</sup>
Avg. connection time (digits)	1343 <sup>ms</sup>	1073 <sup>ms</sup>	311 <sup>ms</sup>	-0.87	19 <sup>th</sup>
Errors (digits)	5	0.8	2.3	-1.84	3 <sup>rd</sup>
Completion time (digits+letters)	70 <sup>s</sup>	71 <sup>s</sup>	14 <sup>s</sup>	0.04	51 <sup>st</sup>
Avg. connection time (digits+letters)	2.73 <sup>s</sup>	2.81 <sup>s</sup>	0.74 <sup>s</sup>	0.11	54 <sup>th</sup>
Errors (digits+letters)	3	1.7	2.4	-0.54	29 <sup>th</sup>
<b>Motor Tapping</b>					
Number of taps (right)	157	158	30	-0.04	48 <sup>th</sup>
Variability of reaction time (right)	11 <sup>ms</sup>	31 <sup>ms</sup>	20 <sup>ms</sup>	1.03	85 <sup>th</sup>
Number of taps (left)	140	145	31	-0.15	44 <sup>th</sup>
Variability of reaction time (left)	55 <sup>ms</sup>	43 <sup>ms</sup>	51 <sup>ms</sup>	-0.23	41 <sup>st</sup>

Raw scores of the Cognitive findings ( ◦ = statistically significant; Std. Dev = standard deviation; Int = international).

Measure	Client	Int. Brain Database Average	Std. Dev	Standardized Score	Percentile
<b>Time Estimation</b>					
Accuracy	-0.01 <sub>s</sub>	0.00 <sub>s</sub>	0.28 <sub>s</sub>	-0.03	49 <sup>th</sup>
<b>Verbal Interference</b>					
Accuracy (word)	14	14.4	2.8	-0.12	45 <sup>th</sup>
Errors (word)	0	0.26	0.39	0.66	75 <sup>th</sup>
Reaction time (word)	1391 <sub>ms</sub>	1270 <sub>ms</sub>	236 <sub>ms</sub>	-0.51	30 <sup>th</sup>
Accuracy (color)	4	6.1	2.6	-0.81	21 <sup>st</sup>
Errors (color)	3	1.3	1.7	-1	16 <sup>th</sup>
Reaction time (color)	2.19 <sub>s</sub>	2.18 <sub>s</sub>	0.51 <sub>s</sub>	-0.01	50 <sup>th</sup>
<b>Spot the Real Word</b>					
Accuracy	52	50.2	4.2	0.44	67 <sup>th</sup>
<b>Word Generation</b>					
Number of words generated (FAS)	8.7	13.7	3.7	-1.35	9 <sup>th</sup>
Number of animal names generated	12	17.5	4.4	-1.25	10 <sup>th</sup>
<b>Maze</b>					
• Trials completed	24	10	6.1	-2.3	1 <sup>st</sup>
• Completion time	749 <sub>s</sub>	337 <sub>s</sub>	153 <sub>s</sub>	-2.69	< 1 <sup>st</sup>
• Path learning time	686 <sub>s</sub>	288 <sub>s</sub>	163 <sub>s</sub>	-2.45	1 <sup>st</sup>
Total errors	114	58	51	-1.1	14 <sup>th</sup>
• Number of overruns	72	24	25	-1.97	2 <sup>nd</sup>

Raw scores of the Cognitive findings ( \* = statistically significant; Std. Dev = standard deviation; Int = international).

Nominal classification bands	Percentile boundary
Very superior	≤ 100 <sup>th</sup>
Superior	< 98 <sup>th</sup>
High average	< 91 <sup>st</sup>
Average	< 75 <sup>th</sup>
Low average	< 25 <sup>th</sup>
Borderline	< 9 <sup>th</sup>
Extremely Low	< 2 <sup>nd</sup>

The test descriptions, selected references and how the scores are derived can be found at <http://services.brainresource.com/reportdetails.jsp>

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11.5.08

An Addendum  
to The Neuropsychiatric Report dated 9.4.08 and to  
the Brain Mapping Report dated 10.9.08

Re: Gabriel Steif

DOA: 02.27.08

DOBA 04.25.37

SS# 076-36-0954

No Fault carrier – Frontier adjuster

PI Attorney – Jaroslawicz & Jaros LLC

Based on the clinical finding of attention and cognitive deficits in Mr. Steif, the positive finding in the brain mapping battery (QEEG and Evoked Responses) and neuropsychological tests, it is determined that Mr. Steif needs to engage in a cognitive rehabilitation and training in order to attempt to improve his attention, concentration and cognitive functions, which are very important to his ability to function professionally.

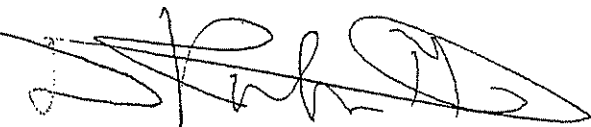
He should attend neuro-rehabilitative psychotherapy sessions for that purpose in a frequency of once a week for a period that is estimated to last should last about eight months to one year.  
The cost per session is \$350.00.

It is hereby determined that Mr. Steif is suffering from a permanent partial disability which limits his productivity and ability to function professionally in his job as an executive.

He has difficulty dealing with details and sustain his attention for more than 10 minutes.

He needs multiple breaks at work to recuperate and be able to function.

His productivity is not expected to improve significantly.



Daniel Kuhn, M.D.,  
Board Certified Psychiatrist



Daniel Kuhn M.D., P.C.

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